

Safety Device according to DIN EN ISO 15615 and DIN EN ISO 14114

Safety device: ZFS02

Type ZFS02 for reliable protection against decomposition of acetylene

The safety device ZFS02:

- Passed the acetylene decomposition test by BAM
- Avoids explosive gas mixtures in the gas supply by a gas non-return valve (NV)
- Stops flashback through flame arrestor (FA)
- Every safety device is 100% tested
- All metal components in brass/chromium-nickel-steel

Safety elements of the SuperFlash Decomposition arrestor ZFS02:

- NV Gas non-return valve
- FA Flame arrestor



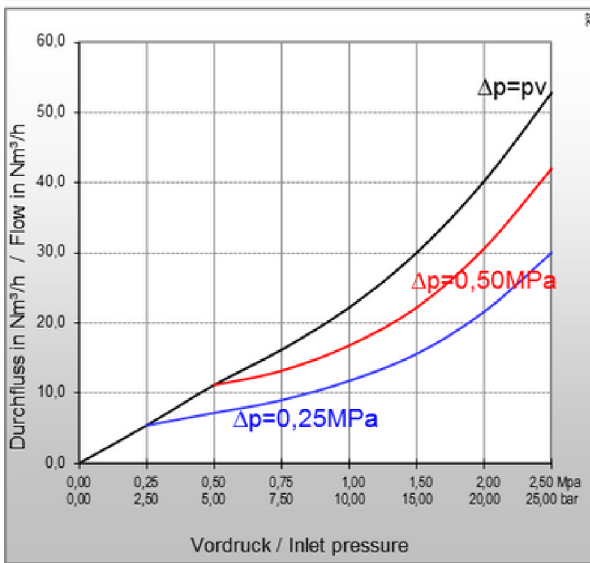
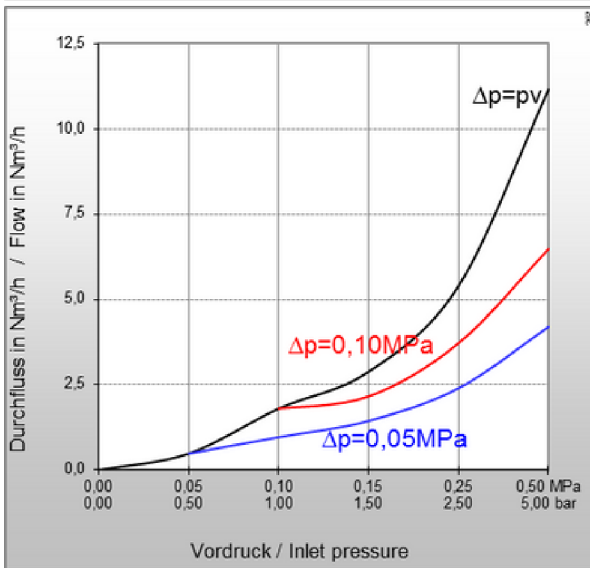
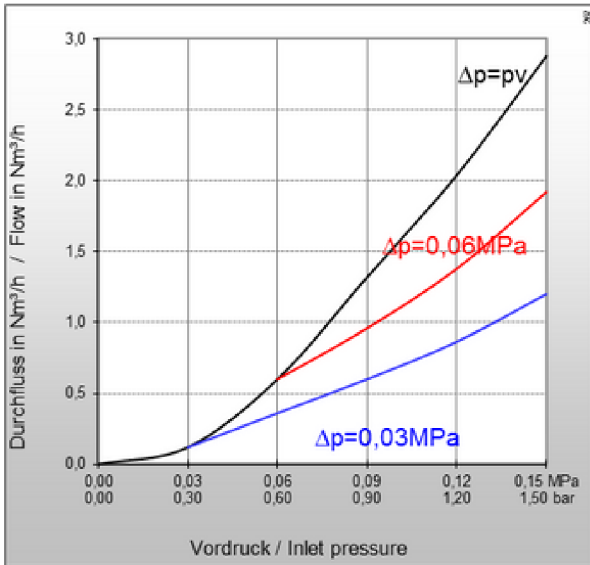
Maintenance:

The safety devices are to be tested by a qualified and authorized person at regular intervals according to country specific regulations. The safety device is to be tested for gas tightness, gas flow and gas return at least once a year.

It is not allowed to open the safety devices.

Technical Data:			
Gas-Types:	Acetylene (A)		
Working pressure:	362 PSIG; 25.0 Bar		
Ambient/ working temperature:	-4°F up to 158°F ; -20°C up to +70°C		
Threads:	1/4NPT F ³⁾ / 1/4NPT F ³⁾		
Measure and weight:	diameter:	length:	weight:
	1.18" ; 30.0 mm	3.35" ; 85.0 mm	14.04 oz ; 398.0 g
Applications:			
Usage:	Decomposition arrestor for acetylene in high pressure pipelines for protection of filling equipment.		

³⁾ F = Female, M = Male



Type: ZFS02

Flow rates [air]:

pv = Primary pressure

ph = Secondary pressure

Δp = Primary pressure minus Secondary pressure

Conversion Factors:

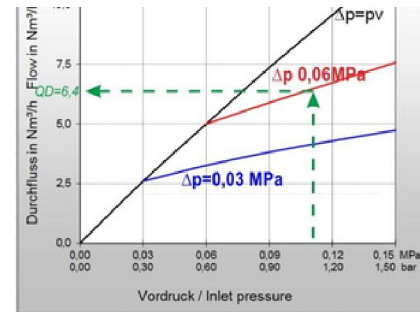
0.1 MPa = 1 bar = 100 kpa = 14.504

psi 1 m³/h = 35.31 cu ft/h

	A	H	P	M	M	O	E	L
QG ▶	C ₂ H ₂	H ₂	C ₃ H ₈	CH ₄ +C	CH ₄	O ₂	C ₂ H ₄	C ₃ H ₆
F	1.2	3.8*	0.90	1.25	1.4	0.95	1.02	0.92

* Conversion factor 2.5 for devices comprising a flame arrestor
The conversion factor for free flow is 3.8.
(Reference: BAM report 220, D. Lietze)

Example:



$$QG = QD \times F$$

$$QG \blacktriangleright A = 6.4 \times 1.2 = 7.68 \text{ m}^3/\text{h C}_2\text{H}_2$$

QG = flow / gas type

F = conversion factor

QD = flow / air

Certification/ Technical Standards/ Rules

TRBS German Technical rules for operation safety, DVS German Association for Welding, Cutting and Allied Processes, DGUV German Employer's liability insurance association rules and regulations.

Standards/ Approvals

Company certified according to ISO 9001:2015 and ISO 14001:2015, CE-marking according to: Pressure Equipment Directive 2014/68/EU

(Subject to change without notice)



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